

What is claimed is

1. A grate for a gas generator (7) adapted to operate in the gasifier of the gas generator so as to provide support to solid fuel fed thereon for combustion such as wood chips, peat, bark and hog fuel from forest harvesting and the like refuse fuel fed thereon, the cross sections of the gasifier and thus also its grate being substantially circular in shape and the grate being equipped with substantially circular slots (9) having the same center point but a varying radius, whereby the circular slots are formed between the annular grate rings (3), and the grate having placed thereon a mass of balls (2) with a diameter larger than the width of the grate slots, **characterized** in that below the grate is mounted a member (4) that is rotatable about the center axis of the grate and is equipped with projections (6), at least some of which extending upward through the circular grate slots (9) to a level higher than the top level of the grate.

15 2. The grate of claim 1, **characterized** in that the rotatable member is a rod-supported rake (4) and that the rake projections are pegs (6) extending upward from the rake rod so far that the tips of the pegs reach higher than the top surface of the grate rings (3).

20 3. The grate of claim 1 or 2, **characterized** in that the grate rings (3) are connected to each other by a support structure (8) that is situated above the top surface of the grate and simultaneously provides two or more compartments for the balls.

25 4. The grate of claim 3, **characterized** in that the support structure (8) of the grate rings (3) comprises two planar members orthogonally crossed with each other so as to form four compartments for the balls (2), whereby the height of the planar members is selected to be greater than one and half times the ball diameter.

5. The grate of any one of claims 1 - 4, **characterized** in that the balls (2) are made from a metal such as steel or a ceramic material.

6. The grate of any one of claims 1 - 4, **characterized** in that the rotating speed

5 of rake (4) is adjustable or automatically controllable.

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